

## Refine Search

### Search Results -

Terms	Documents
L5 and matrix and mixed	8

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L8

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Tuesday, September 07, 2004    [Printable Copy](#)    [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

<u>L8</u>	L5 and matrix and mixed	8	<u>L8</u>
<u>L7</u>	"h-infinity" and signal adj separation	2	<u>L7</u>
<u>L6</u>	"h-infinity norm"	3	<u>L6</u>
<u>L5</u>	"h-infinity"	82	<u>L5</u>
<u>L4</u>	10/045,271	1	<u>L4</u>
<u>L3</u>	L1 and restor\$4 and matrix and mixed and infinity	28	<u>L3</u>
<u>L2</u>	L1 and restor\$4 and matrix and mixed	208	<u>L2</u>
<u>L1</u>	signal adj separat\$6	31913	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 28 of 28 returned.

☐ 1. Document ID: US 20040130442 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 28

File: PGPB

Jul 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040130442

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040130442 A1

TITLE: Wireless and powerless sensor and interrogator

PUBLICATION-DATE: July 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Breed, David S.	Boonton Township	NJ	US	
DuVall, Wilbur E.	Kimberling	MO	US	
Johnson, Wendell C.	Signal Hill	CA	US	
Kolomeyko, Anatoliy V.	Kyiv		UA	
Shostak, Oleksandr T.	Kyiv		UA	

US-CL-CURRENT: 340/443; 340/449

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 20040039903 A1

L3: Entry 2 of 28

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040039903

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040039903 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including a video formatter and methods relating thereto

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	

Robbins, William P.	Bristol	GB
Jones, Anthony M.	Arnhem-Zuid	NL
Finch, Helen R.	Bristol	GB
Boyd, Kevin J.	Bristol	GB
Claydon, Anthony Peter	Bath Avon	GB

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20040025000 A1

L3: Entry 3 of 28

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040025000

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040025000 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including start code detection and methods relating thereto

PUBLICATION-DATE: February 5, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Arnhem-Zuid		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20040019775 A1

L3: Entry 4 of 28

File: PGPB

Jan 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040019775

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040019775 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including tokens and methods relating thereto

PUBLICATION-DATE: January 29, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Nijmegen		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 5. Document ID: US 20030227969 A1

L3: Entry 5 of 28

File: PGPB

Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030227969

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030227969 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including a reconfigurable processing stage and methods relating thereto

PUBLICATION-DATE: December 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Arnhem-Zuid		GB	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 375/240.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. D
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☐ 6. Document ID: US 20030218955 A1

L3: Entry 6 of 28

File: PGPB

Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030218955

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030218955 A1



TITLE: Information recording medium, information reproducing method, and information reproducing apparatus

PUBLICATION-DATE: November 27, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Isshiki, Fumio	Kokubunji		JP	
Nishida, Tetsuya	Tokyo		JP	

US-CL-CURRENT: 369/59.21; 369/124.02, 369/275.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 7. Document ID: US 20030196078 A1

L3: Entry 7 of 28

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030196078

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030196078 A1

TITLE: Data pipeline system and data encoding method

PUBLICATION-DATE: October 16, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Arnhem-Zuid		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: US 20030182544 A1

L3: Entry 8 of 28

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030182544

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030182544 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including a decoder with token generator and methods relating thereto

PUBLICATION-DATE: September 25, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Arnhem-Zuid		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 20030156652 A1

L3: Entry 9 of 28

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030156652

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030156652 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including a video formatter and methods relating thereto

PUBLICATION-DATE: August 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Numegen		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 375/240.26; 375/240.03, 375/240.12, 375/240.18, 375/240.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 20030079117 A1

L3: Entry 10 of 28

File: PGPB

Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030079117

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030079117 A1

TITLE: Multistandard video decoder and decompression method for processing encoded bit streams according to respective different standards

PUBLICATION-DATE: April 24, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Arnhem-Zuid		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 20030018884 A1

L3: Entry 11 of 28

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030018884

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030018884 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including expanding run length codes and methods relating thereto

PUBLICATION-DATE: January 23, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell, Berks		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Numegen		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300; 375/253

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 20020152369 A1

L3: Entry 12 of 28

File: PGPB

Oct 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020152369

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020152369 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including storing data and methods relating thereto

PUBLICATION-DATE: October 17, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, Willam P.	Bristol		GB	
Jones, Anthony M.	Arnhem-Zuid		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 13. Document ID: US 20020136328 A1

L3: Entry 13 of 28

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020136328

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020136328 A1

TITLE: Signal separation method and apparatus for restoring original signal from observed data

PUBLICATION-DATE: September 26, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shimizu, Junya	Yokohama-shi		JP	

US-CL-CURRENT: 375/316

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 14. Document ID: US 20020085741 A1

L3: Entry 14 of 28

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020085741  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020085741 A1

TITLE: Signal separation method, signal processing apparatus, image processing apparatus, medical image processing apparatus and storage medium for restoring multidimensional signals from observed data in which multiple signals are mixed

PUBLICATION-DATE: July 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shimizu, Junya	Yokohama-shi		JP	

US-CL-CURRENT: 382/118

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 20020066007 A1

L3: Entry 15 of 28

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020066007  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020066007 A1

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including pipeline processing and methods relating thereto

PUBLICATION-DATE: May 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wise, Adrian P.	Bracknell		GB	
Sotheran, Martin W.	Bristol		GB	
Robbins, William P.	Bristol		GB	
Jones, Anthony M.	Arnhem-Zuid		NL	
Finch, Helen R.	Bristol		GB	
Boyd, Kevin J.	Bristol		GB	
Claydon, Anthony Peter J.	Bath Avon		GB	

US-CL-CURRENT: 712/300

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 6697930 B2

L3: Entry 16 of 28

File: USPT

Feb 24, 2004

US-PAT-NO: 6697930

DOCUMENT-IDENTIFIER: US 6697930 B2

TITLE: Multistandard video decoder and decompression method for processing encoded bit streams according to respective different standards

DATE-ISSUED: February 24, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian P	Bracknell			GB
Sotheran; Martin W	Bristol			GB
Robbins; William P	Bristol			GB
Jones; Anthony M	Numegen			NL
Finch; Helen R	Bristol			GB
Boyd; Kevin J	Bristol			GB
Claydon; Anthony Peter J	Bath Avon			GB

US-CL-CURRENT: 712/2; 382/232, 712/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Figures	Claims	KWIC	Draw Ds
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☐ 17. Document ID: US 6674865 B1

L3: Entry 17 of 28

File: USPT

Jan 6, 2004

US-PAT-NO: 6674865

DOCUMENT-IDENTIFIER: US 6674865 B1

TITLE: Automatic volume control for communication system

DATE-ISSUED: January 6, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Venkatesh; Saligrama R.	Jersey City	NJ		
Finn; Alan M.	Hebron	CT		
Reich; Ronald K.	Merrimac	NH		

US-CL-CURRENT: 381/107; 381/57, 381/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Figures	Claims	KWIC	Draw Ds
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☐ 18. Document ID: US 6492973 B1

L3: Entry 18 of 28

File: USPT

Dec 10, 2002

US-PAT-NO: 6492973

DOCUMENT-IDENTIFIER: US 6492973 B1

TITLE: Method of driving a flat display capable of wireless connection and device

for driving the same

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuroki; Futoshi	Kure			JP
Araki; Tetsu	Chiba			JP
Sato; Hiroya	Nara			JP
Aoki; Tamotsu	Otawara			JP

US-CL-CURRENT: 345/100; 348/726, 375/376

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examination	Publication	Claims	KM/C	Drawings
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☐ 19. Document ID: US 6435737 B1

L3: Entry 19 of 28

File: USPT

Aug 20, 2002

US-PAT-NO: 6435737

DOCUMENT-IDENTIFIER: US 6435737 B1

TITLE: Data pipeline system and data encoding method

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian Philip	Frenchay			GB
Sotheran; Martin William	Dursley			GB
Robbins; William Philip	Cam			GB

US-CL-CURRENT: 712/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examination	Publication	Claims	KM/C	Drawings
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☐ 20. Document ID: US 6330666 B1

L3: Entry 20 of 28

File: USPT

Dec 11, 2001

US-PAT-NO: 6330666

DOCUMENT-IDENTIFIER: US 6330666 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Multistandard video decoder and decompression system for processing encoded bit streams including start codes and methods relating thereto

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian P	Bracknell			GB
Sotheran; Martin W	Bristol			GB
Robbins; William P	Bristol			GB
Jones; Anthony M	Arnhem-Zuid			NL
Finch; Helen R	Bristol			GB
Boyd; Kevin J	Bristol			GB
Claydon; Anthony Peter J	Bath Avon			GB

US-CL-CURRENT: 712/300; 382/246, 710/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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☐ 21. Document ID: US 6330665 B1

L3: Entry 21 of 28

File: USPT

Dec 11, 2001

US-PAT-NO: 6330665

DOCUMENT-IDENTIFIER: US 6330665 B1

TITLE: Video parser

DATE-ISSUED: December 11, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian P.	Bracknell			GB
Boyd; Kevin J.	Bristol			GB
Finch; Helen R	Bristol			GB
Robbins; William P	Bristol			GB

US-CL-CURRENT: 712/300; 712/220

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw De
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☐ 22. Document ID: US 6263422 B1

L3: Entry 22 of 28

File: USPT

Jul 17, 2001

US-PAT-NO: 6263422

DOCUMENT-IDENTIFIER: US 6263422 B1

TITLE: Pipeline processing machine with interactive stages operable in response to tokens and system and methods relating thereto

DATE-ISSUED: July 17, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Wise; Adrian P.	Frenchay	GB
Sotheran; Martin W.	Dursley	GB
Robbins; William P.	Cam	GB

US-CL-CURRENT: 712/209; 382/303

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 6038380 A

L3: Entry 23 of 28

File: USPT

Mar 14, 2000

US-PAT-NO: 6038380

DOCUMENT-IDENTIFIER: US 6038380 A

TITLE: Data pipeline system and data encoding method

DATE-ISSUED: March 14, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian Philip	Bracknell			GB
Sotheran; Martin William	Bristol			GB
Robbins; William Philip	Bristol			GB

US-CL-CURRENT: 712/200; 382/246

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 24. Document ID: US 6035126 A

L3: Entry 24 of 28

File: USPT

Mar 7, 2000

US-PAT-NO: 6035126

DOCUMENT-IDENTIFIER: US 6035126 A

TITLE: Data pipeline system and data encoding method

DATE-ISSUED: March 7, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian Philip	Bristol			GB
Sotheran; Martin William	Gloucestershire			GB
Robbins; William Philip	Gloucestershire			GB

US-CL-CURRENT: 712/29

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 25. Document ID: US 5881301 A

L3: Entry 25 of 28

File: USPT

Mar 9, 1999

US-PAT-NO: 5881301

DOCUMENT-IDENTIFIER: US 5881301 A

TITLE: Inverse modeller

DATE-ISSUED: March 9, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Robbins; William Philip	Gloucestershire			GB

US-CL-CURRENT: 712/1; 382/232, 710/68

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw De
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☐ 26. Document ID: US 5835740 A

L3: Entry 26 of 28

File: USPT

Nov 10, 1998

US-PAT-NO: 5835740

DOCUMENT-IDENTIFIER: US 5835740 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Data pipeline system and data encoding method

DATE-ISSUED: November 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian Philip	Bristol			GB
Sotheran; Martin William	Dursley			GB
Robbins; William Philip	Cam			GB

US-CL-CURRENT: 712/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Abstract	Claims	KWIC	Draw De
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☐ 27. Document ID: US 5805914 A

L3: Entry 27 of 28

File: USPT

Sep 8, 1998

US-PAT-NO: 5805914

DOCUMENT-IDENTIFIER: US 5805914 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Data pipeline system and data encoding method

DATE-ISSUED: September 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wise; Adrian Philip	Bristol			GB
Sotheran; Martin William	Dursley			GB
Robbins; William Philip	Cam			GB
Claydon; Anthony Peter John	Bath			GB
Boyd; Kevin James	Bristol			GB
Finch; Helen Rosemary	Wotton-Under-Edge			GB

US-CL-CURRENT: 382/232; 382/233

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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☐ 28. Document ID: US 3245039 A

L3: Entry 28 of 28

File: USOC

Apr 5, 1966

US-PAT-NO: 3245039

DOCUMENT-IDENTIFIER: US 3245039 A

TITLE: Electronic data processing machine

DATE-ISSUED: April 5, 1966

INVENTOR-NAME: NATHANIEL ROCHESTER; OAKS MILL RED ; BASHE CHARLES J ; CRAGO ROBERT P ; FOX PHILIP E ; PHELPS BYRON E ; WERNER BUCHHOLZ ; HADDAD JERRIER A

US-CL-CURRENT: 711/219, 711/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
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L1 and restor\$4 and matrix and mixed and infinity

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<u>L8</u>	L5 and matrix and mixed	8	<u>L8</u>
<u>L7</u>	"h-infinity" and signal adj separation	2	<u>L7</u>
<u>L6</u>	"h-infinity norm"	3	<u>L6</u>
<u>L5</u>	"h-infinity"	82	<u>L5</u>
<u>L4</u>	10/045,271	1	<u>L4</u>
<u>L3</u>	L1 and restor\$4 and matrix and mixed and infinity	28	<u>L3</u>
<u>L2</u>	L1 and restor\$4 and matrix and mixed	208	<u>L2</u>
<u>L1</u>	signal adj separat\$6	31913	<u>L1</u>

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20040023844 A1

Using default format because multiple data bases are involved.

L8: Entry 1 of 8

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040023844

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040023844 A1

TITLE: Method and device for controlling drug pharmacokinetics

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Pettis, Ronald J.	Cary	NC	US	
Harvey, Noel	Efland	NC	US	
Ginsberg, Barry	Wyckoff	NJ	US	

US-CL-CURRENT: 514/1; 604/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 2. Document ID: US 20030158610 A1

L8: Entry 2 of 8

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158610

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158610 A1

TITLE: Control systems for extrusion or drawing plants

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Jamal-Ahmad, Mohammad Hafiz Fazal Elahi	Cranford		GB	

US-CL-CURRENT: 700/28; 700/1, 700/32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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☐ 3. Document ID: US 20030100824 A1

L8: Entry 3 of 8

File: PGPB

May 29, 2003

PGPUB-DOCUMENT-NUMBER: 20030100824

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030100824 A1

TITLE: Architecture tool and methods of use

PUBLICATION-DATE: May 29, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Warren, William L.	Stillwater	OK	US	
Parkhill, Robert L.	Stillwater	OK	US	
Stewart, Robert L.	Stillwater	OK	US	
Kachurin, Anatoly M.	Stillwater	OK	US	
Taylor, Robert M.	Perkins	OK	US	
Hargrave, Brian H.	Stillwater	OK	US	
Church, Kenneth H.	Stillwater	OK	US	
Nguyen, Michael N.	Stillwater	OK	US	
Kargel, Mark L.	Stillwater	OK	US	
Simpkins, Mark W.	Stillwater	OK	US	

US-CL-CURRENT: 600/407

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 20020136328 A1

L8: Entry 4 of 8

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020136328

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020136328 A1

TITLE: Signal separation method and apparatus for restoring original signal from observed data

PUBLICATION-DATE: September 26, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shimizu, Junya	Yokohama-shi		JP	

US-CL-CURRENT: 375/316

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 20020085741 A1

L8: Entry 5 of 8

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020085741

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020085741 A1

TITLE: Signal separation method, signal processing apparatus, image processing apparatus, medical image processing apparatus and storage medium for restoring multidimensional signals from observed data in which multiple signals are mixed

PUBLICATION-DATE: July 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shimizu, Junya	Yokohama-shi		JP	

US-CL-CURRENT: 382/118

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6674865 B1

L8: Entry 6 of 8

File: USPT

Jan 6, 2004

US-PAT-NO: 6674865

DOCUMENT-IDENTIFIER: US 6674865 B1

TITLE: Automatic volume control for communication system

DATE-ISSUED: January 6, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Venkatesh; Saligrama R.	Jersey City	NJ		
Finn; Alan M.	Hebron	CT		
Reich; Ronald K.	Merrimac	NH		

US-CL-CURRENT: 381/107; 381/57, 381/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 6629089 B1

L8: Entry 7 of 8

File: USPT

Sep 30, 2003

US-PAT-NO: 6629089

DOCUMENT-IDENTIFIER: US 6629089 B1

TITLE: Artificial neural network voice coil motor controller

DATE-ISSUED: September 30, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Supino; Lou	Boulder	CO		

US-CL-CURRENT: 706/23; 360/75, 369/44.25, 700/37, 700/45, 700/48, 706/15, 706/22, 706/903

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw Ds
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☐ 8. Document ID: US 5038269 A

L8: Entry 8 of 8

File: USPT

Aug 6, 1991

US-PAT-NO: 5038269

DOCUMENT-IDENTIFIER: US 5038269 A

TITLE: Industrial control systems

DATE-ISSUED: August 6, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grimble; Michael J.	Bridge of Weir			GB6
Fairbairn; Niall A.	Thornliebank			GB6

US-CL-CURRENT: 700/52; 700/37, 700/45

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw Ds
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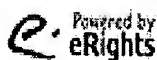
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#### 1 Generalized design of mixed H-infinity/deadbeat suboptimal control for SISO continuous-time servo systems

*Tanaka, S.; Furuta, K.;*

Decision and Control, 2000. Proceedings of the 39th IEEE Conference on , Vol 2 , 12-15 Dec. 2000

Pages:1049 - 1054 vol.2

[\[Abstract\]](#)
[\[PDF Full-Text \(424 KB\)\]](#)
**IEEE CNF**

#### 2 A robust H<sub>∞</sub> PSS with enlarged damping range

*Kutzner, R.;*

Power Engineering Society Summer Meeting, 1999. IEEE , Volume: 1 , 18-22 1999

Pages:53 - 57 vol.1

[\[Abstract\]](#)
[\[PDF Full-Text \(536 KB\)\]](#)
**IEEE CNF**

#### 3 A homotopy algorithm for the combined H-2/H-infinity model reduction problem

*Ge, Y.; Collins, E.G.; Watson, L.T.; Bernstein, D.S.;*

Southeastcon '93, Proceedings., IEEE , 4-7 April 1993

Pages:4 p.

[\[Abstract\]](#)
[\[PDF Full-Text \(320 KB\)\]](#)
**IEEE CNF**

#### 4 Generalized I<sub>2</sub> synthesis

*D'Andrea, R.;*

Automatic Control, IEEE Transactions on , Volume: 44 , Issue: 6 , June 1999

Pages:1145 - 1156



[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) IEEE JNL

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**5 Adaptive/self-tuning PID control by frequency loop-shaping**

*Grassi, E.; Tsakalis, K.S.; Dash, S.; Gaikwad, S.V.; Stein, G.;*

Decision and Control, 2000. Proceedings of the 39th IEEE Conference on , Vol 2 , 12-15 Dec. 2000

Pages:1099 - 1101 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(268 KB\)\]](#) IEEE CNF

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**6 Robust reliable  $H_{\infty}$  control for time-varying uncertain systems with time-delay**

*Xiaoyu Zhang; Hongzhang Jin; Guobin Li; Ming Ji;*

Intelligent Control and Automation, 2002. Proceedings of the 4th World Congress on , Volume: 3 , 10-14 June 2002

Pages:1734 - 1738 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(400 KB\)\]](#) IEEE CNF

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**7 Robust  $H_{\infty}$  filter design for uncertain linear systems state delay**

*Yunze Cai; Xing He; Xiaoming Xu; Weidong Zhang;*

Intelligent Control and Automation, 2002. Proceedings of the 4th World Congress on , Volume: 3 , 10-14 June 2002

Pages:1726 - 1730 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(389 KB\)\]](#) IEEE CNF

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**8 A reduced-order discrete-time  $H_{\infty}$  norm bounding controller**

*Hoover, D.N.; Perkins, W.R.; Medanic, J.V.;*

Decision and Control, 1995., Proceedings of the 34th IEEE Conference on , Vol 4 , 13-15 Dec. 1995

Pages:4151 - 4156 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(380 KB\)\]](#) IEEE CNF

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**9 On the order of optimal controllers in the mixed  $H_2/H_{\infty}$  control**

*Megretski, A.;*

Decision and Control, 1994., Proceedings of the 33rd IEEE Conference on , Vol 4 , 14-16 Dec. 1994

Pages:3173 - 3174 vol.4

[\[Abstract\]](#) [\[PDF Full-Text \(160 KB\)\]](#) IEEE CNF

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**10 Uncertainty weight selection for  $H_{\infty}$  and  $\mu$ -control method:**

*Lundstrom, P.; Skogestad, S.; Wang, Z.-Q.;*

Decision and Control, 1991., Proceedings of the 30th IEEE Conference on , 11 Dec. 1991

Pages:1537 - 1542 vol.2

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*Kavranoglu, D.; Al-Amer, S.H.;*

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*Shimizu, J.; Yamada, H.; Murata, S.; Tomita, A.; Kitamura, M.; Suzuki, A.;*  
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*Shimizu, J.; Yamada, H.; Murata, S.; Tomita, A.; Kitamura, M.; Suzuki, A.;*  
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#### 18 **A new technique for fabrication of OEICs-the etched back planar process-and its application to the fabrication of planar embedded InP InGaAs p-i-n photodiodes**

*Shimizu, J.; Inomoto, Y.; Kida, N.; Terakado, T.; Suzuki, A.;*  
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*Sato, K.; Hosoda, T.; Watanabe, Y.; Wada, S.; Iriguchi, Y.; Makita, K.; Shono, Shimizu, J.; Sakamoto, K.; Watanabe, I.; Mitamura, K.; Yamaguchi, M.;*

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#### 33 10-Gbps high performance transmitter and receiver modules using modulator-integrated DFB-LD, superlattice-APD, and GaAs HJFET-ICs

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**41 A New Determination Method for Aigaas/gaas Hbt Large-Signal Model**

**Parameters Using Bias Dependent Noise Parameters and S-Parameter***Hayama, N.; Shimizu, J.; Honjo, K.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(216KB\)\]](#) [IEEE CNF](#)**42 Optical Confinement Factor Dependence of K-factor, Differential Gain and Nonlinear Gain in 1.55/ $\mu$ m MQW and Strained MQW Lasers***Shimizu, J.; Yamada, H.; Murata, S.; Tomita, A.; Kitamura, M.; Suzuki, A.;*

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[\[Abstract\]](#) [\[PDF Full-Text \(416KB\)\]](#) [IEEE CNF](#)**44 A new interlayer formation technology for completely planarized multilevel interconnection by using LPD***Homma, T.; Katoh, T.; Yamada, Y.; Shimizu, J.; Murao, Y.;*

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#### 46 **Advantages of optical modulators with InGaAlAs/InGaAlAs MQW structure**

*Shimizu, J.; Aoki, M.; Tsuchiya, T.; Shirai, M.; Taike, A.; Ohtoshi, T.; Tsuji, S*  
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#### 47 **High-frequency modulation characteristics in 1.5 $\mu$ m compressively strained multiquantum well lasers with large number of wells**

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#### 48 **Strain effect on K factor, differential gain and nonlinear gain coefficient for InGaAs/InGaAsP strained multiquantum well lasers**

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#### 50 **High sensitivity, high gain, long wavelength OEIC receiver with monolithically integrated three-stage preamplifier**

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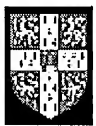
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Cambridge University  
Engineering Department

## I. Information Engineering

Robust Control Theory and Design

Robust Control Applications

Predictive Control and Identification

Control Robotics

Signal Processing and Communications

Speech Processing and Neural Networks

Medical Applications of Information Engineering

Computer Vision and Robotics

Artificial Intelligence and Decision Support

Departmental Computing Systems

References

### Robust Control Theory and Design

Prof. K. Glover

Dr M.C. Smith

Dr G. Vinnicombe

Work has continued on theoretical enhancements to the **H-infinity**; robust control framework that are aimed at making the theory more useful in a design context.

A substantial new graduate level text book(I130) has been completed and covers many of the developments in robust control developed over the last decade in Cambridge, by the co-authors from Caltech and from elsewhere.

Further results on the robust control of sampled data systems have been presented(I20,I21,I66).

Research effort has continued on input-output approaches to control systems(I107). A generalisation of the gap metric for uncertainty studies in nonlinear feedback systems has been developed(I30,I31).

Approaches to the computation of induced norms for nonlinear systems were pursued(I98,I99). The optimality properties of **H-infinity**; loop-shaping designs were characterised in the language of classical frequency response control(I22).

The results of **H-infinity**; robust control can often appear conservative when viewed from a practical perspective. Techniques for reducing this apparent conservatism, which exploit bounds on the controller complexity, are developed in(I1 I9). A generally applicable method for dealing with actuator saturation within a robust control framework is presented in(I87). **H-infinity**; optimization over fixed structure controllers remains a difficult problem - a useful reparameterization of the problem, with some encouraging results, is reported(I86).

## Robust Control Applications

Prof. K. Glover

Work on the control of combustion engines has expanded substantially in the last year with a new experimental facility under development in the department with EPSRC and Ford Motor Company funding. This is a continuation of current work on the robust control of air-fuel ratio so as to minimize emissions.

Work on flight control has seen a significant input into the GARTEUR design challenge from the group using the **H-infinity**; Loop Shaping design procedure.

## Predictive Control and Identification

Dr J. Maciejowski

Research on Model-based predictive control (MBPC), which allows economic and engineering constraints, as well as equipment failures, to be taken into account when controlling complex plant, has continued(I41). The applicability of this approach to flight control is being investigated by continued participation in the GARTEUR 'Flight Control Challenge'.

Work on the application of balanced realisations to system identification has continued within the framework of the EC-sponsored 'European Research Network into System Identification', which continues to exist as an informal grouping of researchers, although EC funding has now terminated(I77). We have also investigated ways of ensuring the stability of models obtained with the so-called 'subspace methods', which are becoming extremely popular for identifying multivariable systems(I13,I76).

Work has continued on improving facilities for computer-aided control engineering(I100), in collaboration with the Institute of Mining and Metallurgy, Krakow, Poland.

## Control Robotics

Dr R.J. Richards

A new approach to image processing, partial summation, has been developed, analysed and applied to a variety of real problems. Partial summation allows many spatial image processing operations to be achieved very efficiently on a conventional processor, which is of particular benefit in real-time industrial vision applications(I43). A novel, very low cost robotic system has been developed and applied to the task of automated PCB assembly. The inaccuracies of a low specification mechanical

system can be overcome with the use of a sophisticated controller, which includes visual feedback from the robot end-effector. Partial summation allows the necessary image processing to be implemented in real-time on a standard PC. Work has progressed on developing a theoretical framework to assess and accelerate reinforcement learning techniques, with particular reference to robot and flexible part movement. This system has been implemented for the time-optimal robotic transportation of flexible materials.

## Signal Processing and Communications

Dr P.J.W. Rayner  
Dr W.J. Fitzgerald  
Dr S.J. Godsill  
Dr N.G. Kingsbury  
Dr M.D. Macleod  
Dr S.J. Maric

During the year work has continued with mud pulse telemetry and better coding and demodulation schemes have been developed. These methods have been tested on real data in collaboration with Schlumberger Cambridge Research Ltd.

As part of the continuing research into the restoration of degraded manuscripts using image processing and model based methods (I48, I110), some of the models (HMM's and the Viterbi algorithm) have been applied, with excellent results, to the problem of sequence alignment and dendrochronology. This work will continue and will be applied to other areas where sequence alignment is a problem, e.g. DNA sequencing. This year a proposal for a six month programme at the Isaac Newton Institute has been accepted and it will take place in 1998. The theme of the programme is The Mathematics of Nonlinear and Nonstationary Signal Processing.

Work has continued with Bayesian methods applied to a variety of problems in time series analysis (I23, I89, I92, I93). In particular, the problem of Non-Gaussian statistics has been addressed and the family of alpha-stable processes has been investigated (I64, I65).

The analysis of sea clutter data in collaboration with the DRA has produced very good results.

Several international collaborations have started this year (in addition to our existing ones) with the Institute of Statistics and Decision Sciences at Duke University, INRIA in France and the Numerical Mathematics Department at the University in Vienna. These collaborations address Sequential MCMC methods, SAR images and Random Markov fields and Time-Frequency methods (Gabor frames and wavelets) respectively.

Work on biological signal processing has continued on ion channel dynamics and change point detection in collaboration with the Pharmacology department (I42), the analysis of the firing of neurons in the brain and their relationship with certain muscular activities in collaboration with the Institute of Neurology, and the analysis of optical microscope images for the detection of abnormal cells in collaboration with a local company.

Research has continued in the area of signal analysis and enhancement in the presence of noise. In the processing of audio signals work has focused on model-based statistical methods for treatment of signals degraded by non-Gaussian noise using both the Expectation-Maximize (EM) algorithm (I35) and Markov Chain Monte Carlo (MCMC) methodology (I32, I33, I35, I36, I37). This section of work saw the

completion of a long and fruitful involvement with the British Library, which had funded the work in sound and image restoration for a number of years.

In the **signal separation** area progress has been made in separation of acoustical signals from convolutive mixing environments using decorrelation techniques(I10,I11,I12), achieving some excellent audio results. As a consequence of the success of this work Olivetti Research Limited have proposed funding a research project in separation techniques for the multimedia office environment.

The work in Motion Picture Restoration(I61,I62,I90) has evolved to produce a number of new algorithms for the reconstruction of entire missing frames. Further improvements in detail preservation have been attained through the use of a Bayesian strategy for video sequence modelling. Results employing new fast relaxation techniques have been reported(I34,I60,I63).

The final results from a project on the design of multidimensional wavelet filter banks were published (I115), with emphasis in this case on the application of transformation-of-variables methods to IIR digital filters.

Projects on methods of modifying standard image and video compression methods, so that they are suitable for use over noisy and error-prone transmission channels, have been progressing well. The basic error resilient entropy code (EREC) algorithm has been published in detail(I94), and the algorithm has been successfully applied to MPEG-II standard video bit-streams(I111,I112), to enhance the resilience to transmission errors while requiring no increase in transmitted data rate or bandwidth.

Motion estimation for video signals has been a key feature of several projects. In particular, wavelet techniques have been extended to use filter banks with complex coefficients so that object motion can be measured to high accuracy within a multi-resolution framework(I57,I79,I80). Enhancements to these methods have been developed(I78) to provide greater accuracy with reduced computation.

Other image processing projects in progress are concerned with: acquisition of 3-D data of human faces to help in the task of face recognition; efficient coding of data from multiresolution image transforms using lattice vector quantisers; and improved motion compensation and segmentation methods for object-based video compression.

During this year considerable progress has been made in developing a framework in which 3D projective invariants and constraints relating points in multiple views of a scene can be formulated (I2,I68,I69). We now intend to use these invariants and tensorial relations for matching features over a number of images. More work has also been done on the estimation of the structure of a scene and the motion of the camera from two images of the same object taken with a moving camera(I70).

Work on the use of linear functions as an alternative to matrices and tensors has continued. The methods used allow us to encode structure into the linear functions and thus impose this structure during optimization processes. Some applications of these techniques include the estimation of power spectra and the separation of audio signals.

Work on general applications of geometric algebra to engineering problems is continuing(I67).

The research in general area of wireless communications has been divided into two parts. In the theoretical part we have looked into the basic properties of frequency hopping CDMA signals(I81,I83) which are used in wireless networks. The goal of this work is to provide better understanding of the theory of spread spectrum as a technique applied in wireless communications. For this we have used the

fundamental definitions from information theory like the Shannon bandwidth and channel capacity. Research in practical aspects of wireless communications has centered around new ways of increasing system's capacity, as well as looking forward into new generation of wireless systems which will be able to provide multimedia services(I84). The work in wireless communications was closely related to our research in optical communications(I82,I85) since we believe that the optical networks will be used as a backbone network for wireless communication systems.

Further work has been published on reduced complexity multiplier design(I18) and digital filter design (I19). New results have been published on interpolators for variable delay implementation(I72). Research into high resolution estimation continues(I129). Research has started into the use of "turbo-codes" in radio communications.

## **Speech Processing and Neural Networks**

Prof. S.J. Young  
Dr A.H. Gee  
Dr M. Niranjana  
Dr R.W. Prager  
Dr A.J. Robinson  
Mr P.C. Woodland

The work in speech over the last year continued to focus on large vocabulary speech recognition based on the HTK HMM system(I116,I126) and the ABBOT connectionist system(I95).

In November 1995, the Speech Group participated once again in an international evaluation of large vocabulary speech recognition systems organised by the US Advanced Projects Research Agency (ARPA). This was the third successive year that CUED has taken part and this time the focus was on transcribing read speech input via unknown microphones in noisy conditions. As in the previous two years, the top-ranked system came from the Cambridge group(I125).

A major contribution to the success of the ARPA evaluation system was the continuing development of techniques for adaptation of a speech recognition system to the current speaker and acoustic environment(I24,I124). The techniques developed in this area have rapidly been taken up by many other groups worldwide.

The final stage of our work on "Improving the Phonetic Discrimination of HMM-based Speech Recognisers" funded by the EPSRC was completed with a study of methods for using Maximum Mutual Information-based training in large vocabulary systems(I117,I118).

Projects with industrial collaboration were also completed last year. The DTI/EPSRC/Olivetti "Video Mail Retrieval using Voice" project ended successfully with a demonstration retrieval system which is both speaker and topic independent(I49,I50,I51,I52,I53). Although focussed originally on the retrieval of video mail messages, this work is now being extended to the broader task of retrieving broadcast news programmes(I4). A similar project sponsored by Hewlett-Packard was also completed with the final phase focusing on fast implementation methods for word spotting(I58,I59).

PhD project work continues with good progress being made in the areas of speech recognition in noise (I25,I26) and stochastic speech production modelling(I3) and class-based language models(I91).

Research in connectionist speech recognition continues with theoretical advances relating to the training

of a recurrent network within a hidden Markov model(I106) and incorporation of phonetic context within this framework(I55). Practical application was made to the recognition of speech from unknown microphones(I56) and to real-time recognition of broadcast radio speech(I116). An overview of the complete system appeared as a book chapter(I95).

A statistical model called a "Hierarchical Mixtures of Experts" was further developed in terms of parameter estimation algorithms(I120,I121).

Work has continued in vocal tract modelling and accurate parameter estimation in nonstationary environments(I5,I101).

Work on sequential parameter estimation in neural networks has continued. A three year EPSRC funded project 'Incremental Learning and Adaptive Neural Network Architectures' was completed during this period(I44,I45,I88,I89). Several applications of the algorithms developed in this area are being actively pursued in areas including enhancing noisy speech and modelling financial time series.

The work on the use of neural networks to solve combinatorial optimization problems culminated in an invited tutorial at the 1995 International Conference on Neural Networks(I27). Recurrent neural networks have been designed to implement a wide variety of low entropy coding schemes(I39,I40). The group also organised the Cambridge Neural Networks Summer School 1996. This was a great success, with seventy participants drawn from industry and academia. The EPSRC again provided thirty scholarships to enable research students from other UK universities to attend. As in the past, the speakers included the foremost experts in the field drawn from all over the world.

## **Medical Applications of Information Engineering**

Dr A.H. Gee  
Dr M. Niranjan  
Dr R.W. Prager

Work continues on the EuroPunch and QAMC projects funded by the European Community. These projects are aimed at using artificial neural networks and other statistical analysis techniques to predict risk during pregnancy(I73,I74,I75). The Department's main partner in these projects is the University of Cambridge Department of Obstetrics and Gynaecology.

The EPSRC funded Stradivarius project concluded successfully. This work, in collaboration with the University of Cambridge Department of Radiology, involved combining information from a number of two-dimensional ultrasound scans to produce three-dimensional displays of internal organs and structures(I96,I97,I113,I114). SOLUS-3D, a major follow-up project funded by the EC, commenced in May 1996. This project aims to extend the state-of-the-art in 3D ultrasound and identify practical applications in the areas of obstetrics and gynaecology. SOLUS-3D is a collaborative venture between the Cambridge Departments of Engineering, Radiology and Obstetrics & Gynaecology, as well as other medical and engineering sites across Europe.

The study of the response of liver transplant patients to immunosuppressive drugs continues through the project, "Neural Computing for Nonstationary Medical Signal Processing". It is funded by the EPSRC and involves collaboration with the University of Cambridge Department of Clinical Biochemistry and the Transplant Unit at Papworth Hospital.

## **Computer Vision and Robotics**

Dr R. Cipolla  
Dr A.H. Gee  
Dr N. Pears

Research in computer vision and robotics has continued on the development of new theories for recovering the three-dimensional shape of visible surfaces from images taken from arbitrary viewpoints with uncalibrated cameras.

Novel contributions have been made in the analysis of curved surfaces (where the dominant image feature is the silhouette or profile). It is well-known that it is possible to reconstruct the shape of curved surfaces from the family of outlines obtained by looking at them from different but known viewpoints. We have also been able to show that viewer motion can be recovered from the envelope of consecutive contour generators - the frontier(I1). These theories have been successfully implemented, thus allowing the registration of images taken from different viewpoints and the reconstruction of arbitrarily complex shapes. The implementation required the detection and tracking of image contours(I9). Computationally simple methods using B-splines were developed to accurately extract image curves and track their temporal evolution .

Progress continues in developing new techniques to match image curves over arbitrary viewpoints for extracting symmetry axes and recognition. Novel geometric invariants under affine and projective transformation groups were developed which do not suffer from the problems of noise sensitivity of differential invariants and the occlusion problems of global moment invariants(I103). A quasi-invariant parameterisation of image curves which approximates group invariant arc-length with lower spatial derivatives has been shown to be extremely powerful in detecting symmetry in natural and textured images and efficiently recognising arbitrarily complex curves under arbitrary viewpoints and occlusion (I102).

Visual motion, as perceived by a camera mounted on a robot moving relative to a scene, can be used to compute the robot motion and the structure of the scene and aid navigation(I71). Simple qualitative cues such as time to contact and relative surface orientation could be reliably extracted from the image divergence estimated from the temporal evolution of the apparent area of a closed contour (I17,I105,I109). The method was extended to image texture, abundant in natural images, and used to guide a robot manipulator(I104).

Stereo vision is often used to recover 3D position but requires correspondence of image features and calibration of position of cameras. Our research has aimed to find simpler, calibration-free cues to surface position and geometry. A simple but more robust approximation to stereo has been proposed exploiting cues present in orthographic projection only(I38). A hand-eye coordination system has been developed to guide a robot manipulator to pick up unfamiliar objects in unstructured environments with uncalibrated stereo cameras. By detecting and tracking a human hand it is possible to allow the user to point at an object of interest and guide a robotic manipulator to pick it up(I14).

Work continues on the design of novel man-machine interfaces. Pointing and face gestures can provide more natural ways of communicating with computers and machines. Automatic techniques for localising faces(I127,I128) and a realtime visual tracking algorithm(I28,I29) are being exploited in hands-off computer and robot interfaces for physically handicapped people(I15) as well as for an interface to 3D television displays.

The Fourth European Conference on Computer Vision(I6,I7) and an International Workshop on Computer Vision in Human-Machine Interfaces were held in Cambridge in April 1996 and attracted



over 360 delegates. An international prize was received for research on the perceptual grouping of image curves(I8).

## **Artificial Intelligence and Decision Support**

Dr T. Holden  
Dr P. Wilhelmij

Work is progressing in applying Artificial Intelligence and Decision Support techniques to large-scale industrial systems, in particular to energy and safety-critical situations. This work involves wide-ranging participation with international industry and has been supported by donations of equipment from BP and Shell.

Work with BP and Honeywell has led to the development of information and management structures for large, complex information systems for improving performance and reducing risk through better informed operators. Through the LIFETRACK project(I47), a decision-support system has been installed in a BP operational plant. This work follows formats and practices required by CALS (Continuous Acquisition and Lifecycle Support) standards.

Related research work has concerned knowledge-sharing in a corporate environment. A key concern in safety-critical or otherwise risk-prevalent organisations is the management of the human, communication, informational and knowledge factors that influence the quality of decisions(I46,I122). One aspect of this has been the development of methods for supporting technology and skills transfer between a fully developed plant in the UK and a newly-installed one in Malaysia(I123). Particular insight was gained into how to transfer knowledge across cultures.

## **Departmental Computing Systems**

Mr J.M.R. Matheson

The computing system for teaching remains largely unchanged in structure with only minor upgrades to support larger engineering packages, increased filespace requirements and rolling replacement of the older equipment. Support for Windows as well as Unix based applications is being introduced to broaden the usefulness of the system.


The main growth continues to be in research computing and a Computer Officer has recently been appointed to provide more formal support for this. Administrative computing is also of increasing importance to our efficient operation and for information transfer; considerable effort is being put into supporting these developments.

It is likely that, starting this year, there will be a substantial improvements to the Department's networking infrastructure to support the greatly increasing data transfer needs in all areas.

## Information Engineering References

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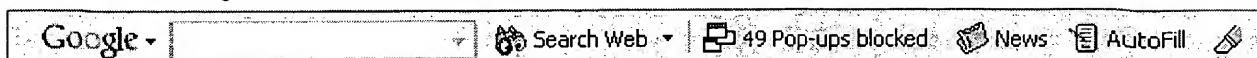
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